

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
AZ03-309WODA	International application No.	International filing date (day/month/year)
PCT/KR 2003/002866	29 December 2003 (29.12.2003)	(Earliest) Priority Date (day/month/year)
<p>Applicant LG ELECTRONICS INC.</p>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:
  - contained in the international application in written form.
  - filed together with the international application in computer readable form.
  - furnished subsequently to this Authority in written form.
  - furnished subsequently to this Authority in computer readable form.
  - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
  - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2.  Certain claims were found unsearchable (See Box I).

3.  Unity of invention is lacking (See Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.: 4

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

None of the figures.

10/584891

IAP11 Rec'd PCT/PTO 28 JUN 2006

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International application No.  
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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Device for supplying mixed gas to gas burners of radiant heating type including a plurality of burner assemblies (310) in the housing (301) for combustion of the mixed gas therein, each with a burner chamber (312) for supplying mixed gas of fuel gas and air thereto, a glass plate (302) placed on top of the housing (301), a plurality of mixing tubes (321) respectively in communication with the burner chamber (312) for supplying the fuel gas and the air thereto, a plurality of gas nozzles (322) for respectively spraying the fuel gas into the mixing tubes (321), a plurality of air supply tubes (323) for respectively spraying the fuel gas into the mixing tubes (321), a plurality of air supply tubes (323) each spaced a distance away from the other end of one of the mixing tubes (321), for supplying air toward the one of the mixing tubes (321), and a fan unit (330) connected to an end of one of the air supply tubes (323) for supplying air thereto.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR 2003/002866

## CLASSIFICATION OF SUBJECT MATTER

**IPC<sup>7</sup>: F23D 14/14, F24C 3/04**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC<sup>7</sup>: F23D, F24C**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5509403 A (KAHLKE) 23 April 1996 (23.04.1996) <i>fig. 1, 4, 6, column 6, lines 57 - 65, column 8, lines 14 - 20.</i>	1, 5 - 9, 13, 16 - 20
Y	<i>fig. 6.</i>	8, 10, 11, 12
Y	US 4083355 A (SCHWANK) 11 April 1978 (11.04.1978) <i>fig. 9 - 11, column 5, lines 61 - 68.</i>	8, 10, 11, 12
X	EP 0423493 A2 (SCHOTT GLASWERKE) 24 April 1991 (24.04.1991) <i>fig. 1, 3, column 4, lines 13 - 41.</i>	1, 2, 14, 16, 21 - 23, 28
A	DE 3315745 A1 (SCHOTT GLASWERKE) 31 October 1984 (31.10.1984) <i>fig. 7, page 13, lines 2 - 6.</i>	1, 15
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Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
„A“ document defining the general state of the art which is not considered to be of particular relevance	„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
„E“ earlier application or patent but published on or after the international filing date	„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	„&“ document member of the same patent family
„O“ document referring to an oral disclosure, use, exhibition or other means	
„P“ document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  29 July 2004 (29.07.2004)	Date of mailing of the international search report  2 September 2004 (02.09.2004)
Name and mailing address of the ISA/AT  Austrian Patent Office Dresdner Straße 87, A-1200 Vienna Facsimile No. 1/53424/535	Authorized officer  WININGER B.  Telephone No. 1/53424/460

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR 03/02866-0

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
DE A 3315745	1984-10-31	AT	T	43897T	1989-06-15
		US	A	4580550	1986-04-08
		EP	A	0124022	1984-11-07
		JP	A	60036812	1985-02-26
EP A 423493		BR	A	9005055	1991-09-10
		EP	A	0423493	1991-04-24
		DE	C	3934562	1990-11-15
		JP	A	3140704	1991-06-14
US A 4083355		YU	B	36811B	1984-08-31
		ES	A	440409	1977-03-01
		IT	B	1041864	1980-01-10
		YU	A	213775	1982-02-25
		AT	A	651375	1981-12-15
		AT	A	341581	1992-07-15
US A 5509403	1996-04-23	ES	T	2104230T	1997-10-01
		DE	D	59403243D	1997-08-07
		EP	A	0638771	1995-02-15
		DE	A	4326945	1995-02-16
		JP	A	7055151	1995-03-03